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Communication Under the Microscope May 07 2020 Social interaction in recent years has become the focus of systematic scientific research in a wide variety of academic disciplines. In *Communication under the Microscope*, Peter Bull shows how communication has become an object of study in its own right, which can be dissected in the finest detail through the use of film and recording technology. In so doing he provides a clear and valuable introduction into the theory and practice of microanalysis. Bull argues that microanalysis is both a distinctive methodology and a distinctive way of thinking about communication. He then focuses on the two principal elements of face-to-face communication: speech and non-verbal behaviour. Communication in particular social contexts is also addressed with related chapters on gender and politics. Finally, the practical aspects of microanalysis are discussed. This unique and thorough review of microanalysis integrates different approaches and draws together research literature which is often diverse and disparate. Presented in a clear and focused style, this book will be of interest to psychologists, social scientists and all students and researchers in the field of communication. Communication is central to many aspects of human life, yet it has only recently become the focus of systematic scientific investigation within a wide variety of academic disciplines. Communication has now become an object of study in its own right, and can be dissected in the finest detail with the use of recording technology (film, audiotape

and videotape). This approach has become known as 'microanalysis', and forms the principal theme of Communication under the Microscope.

The Microscope Aug 29 2019

Objects for the Microscope May 31 2022

Under the Microscope Jun 27 2019 There's a whole world of organisms that escape the naked eye. Take a small soil specimen and peek into the microscope. You will be surprised at the tiny creatures there. This knowledge will encourage kids to appreciate and respect the soil. After all, it sustains life on Earth. Open your eyes to the truth. Read this book today!

Micrographia, Or, Some Physiological Descriptions of Minute Bodies Made by Magnifying Glasses Mar 05

2020 At one time, Hooke was a research assistant to Robert Boyle. He is believed to be one of the greatest inventive geniuses of all time and constructed one of the most famous of the early compound microscopes.

The Evolution of the Microscope Oct 04 2022 The Evolution of the Microscope covers some of the features of the history of the microscope and the rationale of the design features found in microscopes. The book discusses the first microscopes, the compound microscope in England (1650-1750), simple or single-lens microscopes, and the development of the achromatic microscope. The text also describes the microscope in Victorian times as well as the optical microscope since 1880. The search for greater resolving power such as the ultra-violet and electron microscopes is considered. Scientists and microscopists will find the book invaluable.

Under the Microscope Sep 22 2021 This is a brief history of the development of microscopy, from the use of beads and water droplets in ancient Greece, through the simple magnifying glass, to the modern compound microscope. The technology and optical theory are developed in a straightforward manner, and this leads to a description and explanation of the most modern technologies in electron microscopy, and scanning electron microscopy as well as the new scanning probe microscopies. A series of very interesting applications of the various microscopic techniques are described. The most recent pioneering techniques in near field and confocal optical microscope technologies are described and evaluated for their future importance.

The Microscope Made Easy Jul 21 2021

Under the Microscope Aug 02 2022 This is a brief history of the development of microscopy, from the use of beads and water droplets in ancient Greece, through the simple magnifying glass, to the modern compound microscope. The technology and optical theory are developed in a straightforward manner, and this leads to a description and explanation of the most modern technologies in electron microscopy, and scanning electron microscopy as well as the new scanning probe microscopies. A series of very interesting applications of the various microscopic techniques are described. The most recent pioneering techniques in near field and confocal optical microscope technologies are described and evaluated for their future importance. Contents:Light and the Ancient GreeksEarly MicroscopiesEarly MicroscopistsPolarized Light and CrystalsThe Polarizing MicroscopeReflected Light MicroscopyParticles and WavesThe Electron MicroscopeThe Scanning Electron MicroscopeChemical Composition from MicroscopyScanning Probe MicroscopiesAcoustic MicroscopyFuture Microscopies Readership: Science undergraduates and general readers. Keywords:

Science is Beautiful: Botanical Life Jul 29 2019 The plant world has always been appreciated for its visual appeal, but its true beauty can be revealed when you look under the electron microscope. This collection unearths some of the most wonderful microscopic images of flowers, trees and grasses ever created, now made possible by technology. We get to see the wonder of pollen, seeds, petals, algae and leaves. The images are as beautiful as any art. This stunning collection of images can be enjoyed purely as a visual voyage but also as a way to understand more of the science behind the image. Whether it's the work of a lavender leaf oil gland, the inside of a pine pollen, flower stamen sculptures deep inside a tree bark, or the wonderful patterns of lichen. Each image will include the scale of the photography as well as the scientific details in layman's terms.

One Thousand Objects for the Microscope Jul 01 2022

Ruby Under a Microscope Mar 17 2021 "An under-the-hood look at how the Ruby programming language runs code. Extensively illustrated with complete explanations and hands-on experiments. Covers Ruby 2.x"--

100 More Paper Planes to Fold & Fly Dec 02 2019 Following on the success of 100 paper planes, this title features new planes based on four different layouts, each decorated with its own unique colours, motifs and patterns - ranging from Aztec prints to fighting tigers to sci fi. It features clear and concise instructions on how to fold and throw the planes.

Through the Microscope Jun 07 2020

Fundamentals of Light Microscopy and Electronic Imaging Feb 13 2021 Fundamentals of Light Microscopy and Electronic Imaging, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and

image formation, basic modes of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website:

www.wiley.com/go/murphy/lightmicroscopy

The Ore Minerals Under the Microscope Jan 15 2021 *The Ore Minerals Under the Microscope: An Optical Guide*, Second Edition, is a very detailed color atlas for ore/opaque minerals (ore microscopy), with a main emphasis on name and synonyms, short descriptions, mineral groups, chemical compositions, information on major formation environments, optical data, reflection color/shade comparison with four common/standard minerals of a similar color or grey shade, and up to five high-quality photos for each mineral with scale. In addition, the atlas contains a compilation from some of the prominent publications in the field of ore microscopy presented on a list of 431 minerals. Concise, full-color pictorial reference for scientists and geologists Explains how to describe and identify microscopic samples of minerals Draws material from prominent literature yielding more than 400 different minerals

Handbook of Biological Confocal Microscopy Feb 02 2020 This third edition of a classic text in biological microscopy includes detailed descriptions and in-depth comparisons of parts of the microscope itself, digital aspects of data acquisition and properties of fluorescent dyes, the techniques of 3D specimen preparation and the fundamental limitations, and practical complexities of quantitative confocal fluorescence imaging. Coverage includes practical multiphoton, photodamage and phototoxicity, 3D FRET, 3D microscopy correlated with micro-MNR, CARS, second and third harmonic signals, ion imaging in 3D, scanning RAMAN, plant specimens, practical 3D microscopy and correlated optical tomography.

The Demon Under the Microscope Apr 29 2022 In *The Demon Under the Microscope*, Thomas Hager chronicles the dramatic history of sulfa, the first antibiotic and the drug that shaped modern medicine. The Nazis discovered it. The Allies won the war with it. It conquered diseases, changed laws, and single-handedly launched the era of antibiotics. Sulfa saved millions of lives—among them those of Winston Churchill and Franklin Delano Roosevelt Jr.—but its real effects are even more far reaching. Sulfa changed the way new drugs were developed, approved, and sold; transformed the way doctors treated patients; and ushered in the era of modern medicine. The very concept that chemicals created in a lab could cure disease revolutionized medicine, taking it from the treatment of symptoms and discomfort to the eradication of the root cause of illness. A strange and colorful story, *The Demon Under the Microscope* illuminates the vivid characters, corporate strategy, individual idealism, careful planning, lucky breaks, cynicism, heroism, greed, hard work, and the central (though mistaken) idea that brought sulfa to the world. This is a fascinating scientific tale with all the excitement and intrigue of a great suspense novel.

Biology Through a Microscope Feb 25 2022 Providing an overview of God's world through a microscope, this book gives a brief history of microscopes before diving into seeing the world through one. Starting with their simple origins in the 13th century as magnifying glasses and exploring some of the many modern varieties of imaging, we explore how they are used and some of what may be seen through one now. Filled with full-color microscopic images of varied animals, insects, plants and fungi, and microorganisms, as well as detailed information for using the modern microscope in the classroom. Discusses examples of stained and unstained slide samples, brightfield, darkfield, and phase contrast microscopy. Includes practical tips about the use of the microscope and labels many of the slide images for easier identification of microscopic structures. Though this is an independent text that can be used with any biology study, it also serves as a companion book in the Master's Class *Biology: The Study of Life From a Christian Worldview* high school course available from Master Books®. Those who purchase this book would not have to purchase a microscope in order to fulfill the requirements.

Introduction to Light Microscopy Jul 09 2020 This book offers a beginner's guide to using light microscopes. It begins with a brief introduction to the physics of optics, which will give the reader a basic grasp of the behaviors of light. In turn, each part of the microscope is explained using clear and simple English, together with detailed photographs and diagrams. The reader will learn the function, care and correct use of each part. A troubleshooting section also helps resolve some of the most common issues encountered in light microscopy. Most people have a general idea of how to use a microscope, but many never get the full benefit, because they receive no training. With easy-to-follow steps and detailed images, this guide will help everyone achieve the best results, and be confident using their microscope. This book is intended for anyone using a light microscope, such as university students, people in lab environments, hobbyists, educators who teach science to young children, and anyone with a general interest in these valuable tools.

Springer Handbook of Microscopy Oct 31 2019 This book features reviews by leading experts on the methods and applications of modern forms of microscopy. The recent awards of Nobel Prizes awarded for super-resolution optical microscopy and cryo-electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies. Earlier Nobel Prizes for electron microscopy (the instrument itself and applications to biology),

scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science, from the study of nanostructures in materials science, physics and chemistry to structural biology. Separate chapters are devoted to confocal, fluorescent and related novel optical microscopies, coherent diffractive imaging, scanning probe microscopy, transmission electron microscopy in all its modes from aberration corrected and analytical to in-situ and time-resolved, low energy electron microscopy, photoelectron microscopy, cryo-electron microscopy in biology, and also ion microscopy. In addition to serving as an essential reference for researchers and teachers in the fields such as materials science, condensed matter physics, solid-state chemistry, structural biology and the molecular sciences generally, the Springer Handbook of Microscopy is a unified, coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy.

Mathematics Under the Microscope Sep 30 2019 The author's goal is to start a dialogue between mathematicians and cognitive scientists. He discusses, from a working mathematician's point of view, the mystery of mathematical intuition: why are certain mathematical concepts more intuitive than others? To what extent does the "small scale" structure of mathematical concepts and algorithms reflect the workings of the human brain? What are the "elementary particles" of mathematics that build up the mathematical universe? The book is saturated with amusing examples from a wide range of disciplines--from turbulence to error-correcting codes to logic--as well as with just puzzles and brainteasers. Despite the very serious subject matter, the author's approach is lighthearted and entertaining. This is an unusual and unusually fascinating book. Readers who never thought about mathematics after their school years will be amazed to discover how many habits of mind, ideas, and even material objects that are inherently mathematical serve as building blocks of our civilization and everyday life. A professional mathematician, reluctantly breaking the daily routine, or pondering on some resisting problem, will open this book and enjoy a sudden return to his or her young days when mathematics was fresh, exciting, and holding all promises. And do not take the word "microscope" in the title too literally: in fact, the author looks around, in time and space, focusing in turn on a tremendous variety of motives, from mathematical "memes" (genes of culture) to an unusual life of a Hollywood star. --Yuri I. Manin, Max-Planck Institute of Mathematics, Bonn, and Northwestern University

The Microscope Made Easy: Or, I. The Nature, Uses, and Magnifying Powers of the Best Kinds of Microscopes Described, Calculated, and Explained: for the Instruction of Such, Particularly, as Desire to Search Into the Wonders of the Minute Creation, Tho' They are Not Acquainted with Optics. Together with Full Directions how to Prepare, Apply, Examine, and Preserve All Sorts of Objects, and Proper Cautions to be Observed in Viewing Them. II. An Account of what Surprising Discoveries Have Been Already Made by the Microscope: with Useful Reflections on Them. And Also a Great Variety of New Experiments and Observations, Pointing Out Many Uncommon Subjects for the Examination of the Curious Nov 12 2020

Empire Under the Microscope Jun 19 2021 This open access book considers science and empire, and the stories we tell ourselves about them. Using British Nobel laureate Ronald Ross (1857-1932) and his colleagues as access points to a wider professional culture, *Empire Under the Microscope* explores the cultural history of parasitology and its relationships with the literary and historical imagination between 1885 and 1935. Emilie Taylor-Pirie examines a wealth of archival material including medical lectures, scientific publications, popular biography, and personal and professional correspondence, alongside novels, poems, newspaper articles, and political speeches, to excavate the shared vocabularies of literature and medicine. She demonstrates how forms such as poetry and biography; genres such as imperial romance and detective fiction; and modes such as adventure and the Gothic, together informed how tropical diseases, their parasites, and their vectors, were understood in relation to race, gender, and nation. From Ancient Greece, to King Arthur's Knights, to the detective work of Sherlock Holmes, parasitologists manipulated literary and historical forms of knowledge in their professional self-fashioning to create a modern mythology that has a visible legacy in relationships between science and society today. Emilie Taylor-Pirie is a Leverhulme Early Career Fellow at the University of Birmingham, UK. She has a BSc in Biology and higher degrees in the humanities.

Embryos Under the Microscope Oct 24 2021 Jane Maienschein examines how understanding of embryos evolved from the speculations of natural philosophers to bioengineering, with its life-enhancing therapies. She shows that research on embryos has always seemed promising to some but frightening to others, and makes the case that public understanding must be informed by scientific findings.

The Microscope in Botany Dec 14 2020

Heredity under the Microscope Oct 12 2020 By focusing on chromosomes, *Heredity under the Microscope* offers a new history of postwar human genetics. Today chromosomes are understood as macromolecular assemblies and are analyzed with a variety of molecular techniques. Yet for much of the twentieth century, researchers studied chromosomes by looking through a microscope. Unlike any other technique, chromosome analysis offered a direct glimpse of the complete human genome, opening up seemingly endless possibilities for observation and intervention. Critics, however, countered that visual evidence was not enough and pointed to the need to understand the molecular mechanisms. Telling this history in full for the first time, Soraya de Chadarevian argues that the often bewildering variety of observations made under the microscope were central to the study of human genetics. Making

space for microscope-based practices alongside molecular approaches, de Chadarevian analyzes the close connections between genetics and an array of scientific, medical, ethical, legal, and policy concerns in the atomic age. By exploring the visual evidence provided by chromosome research in the context of postwar biology and medicine, *Heredity under the Microscope* sheds new light on the cultural history of the human genome.

Photography with a Microscope Dec 26 2021 Describes the principles and practice of photomicrography for all who contemplate attaching a camera to a microscope.

The Story of the Microscope Jan 03 2020

Darwinism Under the Microscope Aug 10 2020 Did you know...The claim that "science and faith are enemies" is a myth? The discovery of DNA and its genetic code points squarely to a designer of the universe? The fossil record is a gigantic embarrassment and "headache" for evolution? Darwin's theories are based ultimately on philosophy, not on science? Brace yourself for a scientific earthquake! Strange "tremors" are now coming from science labs. As researchers uncover new levels of astonishing complexity within the cell, they suddenly face a shocking conclusion: Darwin was wrong. This sophisticated complexity could not arise by chance; it must have been designed. Darwinism Under the Microscope probes the exciting "Darwinism vs. Design" debate that is making headlines. It lays a scientific foundation for "divine design" and equips the reader to discuss the topic intelligently...even with professors! One of the book's contributing authors, biologist Michael Behe, has done revolutionary work on the cell's tiny molecular machines. His "evidence of design" in Darwin's Black Box triggered an ever-expanding global controversy. Using Darwin's own pass-fail test, Behe concludes: "Darwin's theory has absolutely broken down." Darwinism Under the Microscope explains the "breakdown" and provides the knowledge and skill to share this breaking news with the next generation.

The Ultimate Guide to Your Microscope Nov 24 2021 Illustrated throughout with photomicrographs, and complete with a reproducible form for documenting specimens, an in-depth guide explains how to put bugs, water, food, plants and pollen, and even parts of the body (like fingernails) under the scope for a close-up glimpse while also explaining how to identify the microscope's different pieces and how to focus properly. Original.

An Introduction to Microscopy Apr 17 2021 Microscopy, which has served as a fundamental scientific technique for centuries, remains an invaluable tool in chemistry, biology, healthcare, and forensics. Increasingly, it is being integrated into modern chemical instrumentation and is of value as a powerful analytical tool across many scientific disciplines. Designed to serve as a primary resource for undergraduate or graduate students, *An Introduction to Microscopy* helps students master the foundational principles of microscopy. Intentionally concise, this text does not attempt to cover all aspects of all types of microscopy such as polarizing light and fluorescence. Instead, the authors' intent is to provide students with the basic knowledge necessary to explore and understand these more advanced techniques. The authors draw from their own extensive backgrounds in forensic identification to explain the methods and ways in which microscopy shapes every investigation. All nine chapters include questions and most include simple exercises related to the material covered. Numerous figures and photographs supplement the text and explain the procedures and principles introduced. A glossary is included as well as a convenient list of abbreviations, and references to more in-depth readings. Offers a Fundamental Approach for Students in all Fields The material assumes basic mathematics skill through algebra and a basic knowledge of fundamental chemistry and physics (essential for understanding optics). Although the authors used the high-quality microscopes found in their laboratories to produce the images found in the book, the information and methods can be applied to any type of microscope to which students have access. Understanding the fundamentals of microscopy provides students with a relevant and marketable skill that can be readily applied in many fields, even if the students have not had significant academic training in the subject. Furthermore, by understanding various aspects of microscopy, students will begin to understand the science behind other related areas, such as spectroscopy, optics, and any number of applications involving analytical instrumentation.

The World of the Microscope Nov 05 2022 Shows how to get the best from various types of microscopes, and suggests projects which reveal the detail of everyday objects.

The Microscope Book May 19 2021 "An excellent introduction . . . including the different types, a physical description of its parts, how to focus, and keeping a journal for projects . . . Needed materials are readily available . . . Numerous simple experiments are laid out . . . The attractive, well-designed format features colorful drawings and full-color microscopic photographs that are helpful in illustrating and explaining projects . . . a welcome addition to any science section."--School Library Journal. 80 pages (all in color), 8 1/2 x 10.

The Usborne Complete Book of the Microscope Mar 29 2022 Explores objects and organisms that can be viewed with a microscope and discusses various kinds of microscopes and microscopy techniques.

Employment for the microscope Apr 05 2020

How to Use the Microscope Aug 22 2021

Exploring with the Microscope Sep 03 2022 Describes the parts of the microscope and their functions, offers advice on upgrading equipment, and discusses optics, illumination, photomicrography, and projects.

The Monastery and the Microscope Sep 10 2020 An illuminating record of dialogues between the Dalai Lama and

some of today's most prominent scientists, philosophers, and contemplatives In 2013, during a historic six-day meeting at a Tibetan monastery in southern India, the Dalai Lama gathered with leading scientists, philosophers, and monks for in-depth discussions on the nature of reality, consciousness, and the human mind. This eye-opening book presents a record of those spirited and wide-ranging dialogues, featuring contributions from prominent scholars like Richard Davidson, Matthieu Ricard, Tania Singer, and Arthur Zajonc as they address such questions as: Does nature have a nature? Do you need a brain to be conscious? Can we change our minds and brains through meditation? Throughout, the contributors explore the exciting and sometimes surprising commonalities between Western scientific and Tibetan Buddhist methods of perceiving, investigating, and knowing. Part history, part state-of-the-field, part inspiration for the future, this book rigorously and accessibly explores what these two investigative traditions can teach each other, and what that can tell us about ourselves and the world.

Adventures with a Microscope Jan 27 2022 Embark on 59 adventures in the natural world: the structures of numerous microscopic animals; what everyday objects really look like at the cellular level; preparing specimens and slides. 142 illustrations.

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